

Groundwater movement simulation by the software package PM5 for the Sviyaga river adjoining territory in the Republic of Tatarstan

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Abstract

© Published under licence by IOP Publishing Ltd. Data of the ecological-hydrogeological fieldwork at the Predvolzhye region of the Republic of Tatarstan were analyzed. A geofiltration model of the Buinsk region area near the village of Stary Studenets in the territory of the Republic of Tatarstan was constructed by the PM5 software package. The model can be developed to become the basis for estimation of the groundwater reserves of the territory, modeling the operation of water intake wells, designing the location of water intake wells, and evaluation of their operational capabilities, and constructing sanitary protection zones.

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